MST-100 Kia and Honda Scanner User's Manual

Preface

Thank you for purchasing this MST-100 KIA SCANNER from Shenzhen Zeus Technology co,ltd.

Read this document carefully so that you can use this device correctly and safely.

After you have read this document, store it away carefully so that it is available any time you need it.

For Safe Usage

Pls make sure you fully understand the meanings of these warnings and cautions before reading the rest of this document.

WARNING

Always observe the following rules. Failure to do so can result in heat generation, fire, blowout, or electrical shock.

·Do not disassemble or alter this device

·Do not connect this tester to anything with a voltage exceeding the ratings of this device.

CAUTION Indicates an item for which incorrect handling can lead to injury or damage to property. Under certain conditions, more serious consequences may result.

·Do not leave this device in any location subject to excessive heat for example in direct sunlight or inside a car on a sunny day.

·Do not touch any metal parts when connecting the device leads to to measurement position, even when within the ratings range.

·Do not work anywhere that water could come in contact with the equipment.

·Do not drop this tester or subject it to a strong impact.

This could cause the liquid crystal leak from inside the tester.

A rash may result if the liquid crystal comes into contact with the skin.

If this happens, wash the skin with plenty of running water, then seek medical attention.

·Block the wheels of the vehicle with chocks before carrying out work such as connecting the tester cable.

Failure to do so could result in an accident.

·Do not pass the cable for this tester over the engine compartment while the engine is running.

An accident may result in cable, test lead, or clothing becomes caught in a belt or pulley.

·When working anywhere not be easily visible, for example under the vehicle, always remove the key from the ignition to ensure the vehicle is not moved.

Failure to do so could result in an accident.

·Do not work connect the scanner cables etc. while the vehicle is running.

Doing so could result in an accident.

·When working near the engine compartment, be careful of the engine and other high-temperature parts.

High-temperature parts can cause burns.

Table of Contents

Check that you have all the following standard components before using this scanner.

·Packing list

Part Name	Illustration	Qty	Remarks
KIA SCANNER Interface		1	
Main cable		1	
OBD II 16PIN Connector		1	
KIA 20PIN Connector		1	
USB Cable		1	

Names of the Parts

KIA SCANNER Interface

DB15 Diagnostic socket

LED Display

Communication

Power indicator

Keypad

DB15

LED

COMMUMICATION LAMP

POWER LIGHT

键盘

Keypad instruction:

F1,F2,F3,F4: Function key

Shift:

▲ ▼

◄ ►

Esc:

Enter:

Note:

·During Diagnosis, this scanner can be connected to the vehicle with the datalink cable to run off the vehicle battery, no need other power supply or battery.

·When the scanner is not connected to the vehicle, it can be supplied with power via USB cable connecting to PC, or external 12V power cable.

·It is normal for the interface to heat up during diagnosis.

Connection

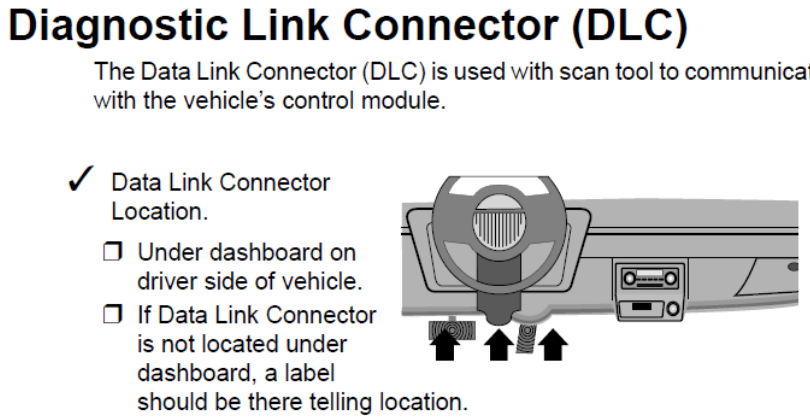
This section explains how to connect the scanner to a vehicle or PC.

1. Connecting to the Vehicle

Use the main cable to connect the scanner to the vehicle (main cable side to vehicle must be connected with 16pin or 20pin connector according to the vehicle model).

Check the position of the vehicle-side datalink connector and choose

proper connector (16pin or 20pin)



Connected to vehicle side datalink connector

（DLC）

CAUTION

·When connecting the datalink cable to the scanner interface and the vehicle side datalink connector, gently insert it gently straight into the connector.

Insert the cable at a slant can break the connector pins.

·when connecting the datalink cable to the interface, make sue the connector is in the right direction.

If you connect it the wrong way up or insert it at an angle, there is a risk of damaging the connector terminal and causing a malfunction of the vehicle or infter.

2. Connecting to a PC

3. Use a USB cable to connect the interface to a PC.

It is necessary to connect to PC in the following cases:

·When diagnosing the vehicle with PC version

·When updating the MST-100 software

 **CAUTION**

·When connecting a USB cable to the interface and the PC, gently insert the cable straight into the connector.

Inserting the cable at a slant can break the connector pins.

II Basic Operations

Starting and Ending

1. **Starting** ·Connect the interface and vehicle side datalink connectors with the datalink cable.

Reference: Page () Connecting to the Vehicle (Chapter I Before Use/Connecting)

·Turn the vehicle ignition switch ON.

·After connecting the interface to vehivle, the interface will be automatically ON. After the opening screen is displayed, the display automatically switches to main menu.

Kia GENERAL	1/4
1. VEHICLE DIAGNOSIS	
2. SYSTEM SETUP	
3. S/W DOWNLOAD	
4. VIEW VERSION	

2. Ending

- Turn the vehicle ignition switch OFF.

- Disconnect the datalink cable from the vehicle side datalink connector, the interface will be automatically OFF.

Main Menu

It displays four menu titles

Vehicle diagnosis

Pls ref. Chapter III Vehicle Diagnosis

2.1System Setup Basic setup: setup buzzer ON/OFF

Language option

Keypad Operation: [▲ ▼] Select item, [◄ ►] Change item, [ESC] Cancel, [ENTER] Save.

[ENTER]

Datetime setup:

DATE:

TIME:

Keypad Operation: [◄ ►] Select item, [▲ ▼] Change item, [ESC] Cancel, [ENTER] Save.

3. S/W Download:

It must be connected to a PC to do software updating.

1.1 Use USB cable to connect the interface to a PC.

Run MST100_PcClient.exe on PC, click [UPDATE], will verify the the S/N autmatically. After that, the software will be downloaded to PC, and update the interface software.

4. View Version:

Display interface S/N, S/W version and H/W version.

Note: Here the S/W means the interface itself, not the diagnosis software.

III Vehicle Diagnosis

1. Vehicle model and system select

Main menu

Vehicle diagnosis

KIA

V25.00 **V25.00**

Enter **Vehicle model select:**

VEHICLE DIAGNOSIS	1/25
01. CARENS	
02. CARNIVAL/SEDONA	
03. CEE'D	
04. CERATO/FORTE	
05. ENTERPRISE	
06. JOICE	
07. K2500/K2900	
08. MOHAVE/BORREGO	
09. OPIRUS/AMANTI	
10. OPTIMA/MAGENTIS	

VEHICLE DIAGNOSIS	25/25
21. SORENTO R(XM)	
22. YN	
23. SOUL	
24. CADENZA (VG)	
25. SPORTAGE (SL SLE)	

Keypad Operation: [◄ ►] Page UP/Down, [▲ ▼] UP/Down, [ESC] Exit, [ENTER] Enter.[◄ ►]上下页翻

Enter **Year select:**

SPORTAGE (SL SLE)	1/4
01. 2011MY	

Enter **System select:**

2011MY	1/14
01. 4 WHEEL DRIVE (4WD)	
02. AHLS	
03. AUTOMATIC TRANSAXLE	
04. ANTI-LOCK BRAKE SYSTEM	
05. BODY CONTROL MODULE	
06. ELEC. POWER STEERING	
07. ENGINE (GASOLINE)	
08. ENGINE (DIESEL)	
09. FULL AUTO AIRCON	
10. IMMOBILIZER	

Enter

ENGINE (GASOLINE)	1/6
01. LEAD 2.0L ALL	
02. LEAD 2.4L ALL	
03. UNLEAD 2.0L EOBD	
04. UNLEAD 2.0L GEN	
05. UNLEAD 2.4L EOBD	
06. UNLEAD 2.4L GEN	

Enter

LEAD 2.0L ALL	1/6
01. OBD-II 16PIN CONNECTOR	

Enter **Diagnosis function**

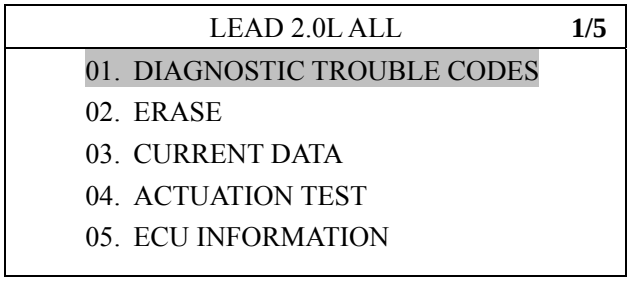
LEAD 2.0L ALL	1/5
01. DIAGNOSTIC TROUBLE CODES	
02. ERASE	
03. CURRENT DATA	
04. ACTUATION TEST	
05. ECU INFORMATION	

[Procedure 1：Model and system select submenu enter/exit process]

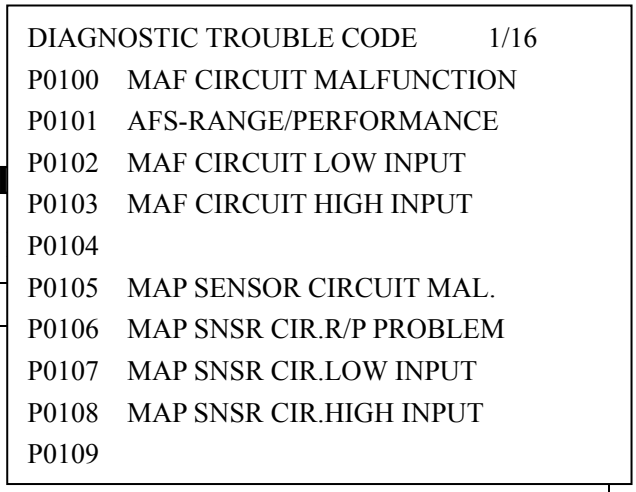
2. Diagnostic Functions:

2.1 Diagnostic Trouble Codes (DTC)

2.2 Refer to Vehicle model and system select, select [01. DIAGNOSTIC TROUBLE CODES] [01. DIAGNOSTIC TROUBLE CODES]



Enter **Read diagnostic trouble codes**

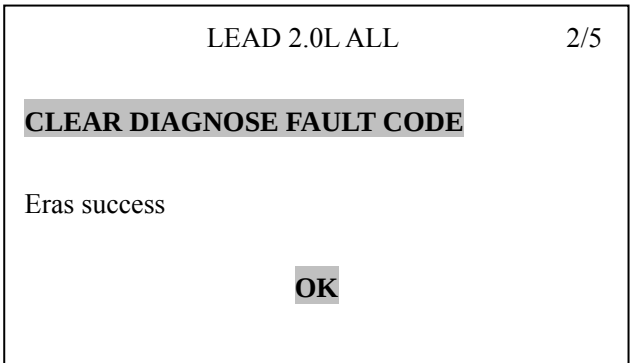


2.2. Erase I

Select [02.

05. ECU INFORMATION

Enter **Erase all the DTCs read**



2.3 Current Data

LEAD 2.0L ALL	1/5
01. DIAGNOSTIC TROUBLE CODES	
02. ERASE	
03. CURRENT DATA	
04. ACTUATION TEST	
05. ECU INFORMATION	

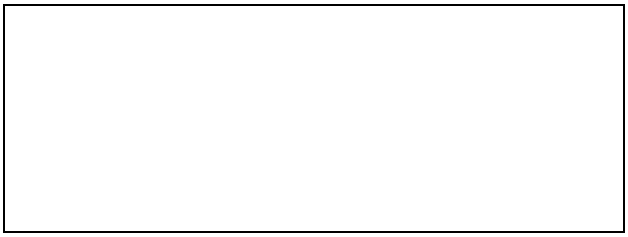
Enter

DS SELECT ID	2/09
• ABTTERY VOLTAGE	
• IGNITION VOLTAGE	
ENGINE SPEED	
TARGET IDLE SPEED	
MAP SENSOR VOLTAGE MAP	
INTAKE MANIFOLD PRESS	
WATER TEMP. SENSOR	
WATER TEMPERATURE	
INTAKE AIR TEMPERATURE	
SELECT	SLT ALL

Keypad Oper

ACTUATION TEST

LEAD 2.0L ALL	1/5
01. DIAGNOSTIC TROUBLE CODES	
02. ERASE	
03. CURRENT DATA	
04. ACTUATION TEST	
05. ECU INFORMATION	



Enter → Actuation Test

ACTUATION TEST 1/20

01. DIAGNOSTIC LAMP(MIL)
02. FUEL PUMP RELAY
03. A/C COMPRESSOR RELAY
04. IMMOBILIZER INDICATOR LAMP
05. FAN MOTOR HIGH SPEED CONTRO
06. FAN MOTOR LOW SPEED CONTROL

ACTUATION TEST
1/20

01. diagnostic light
02. FPR
03. The A/C compressor relay
04. Fixet light
05. Fan motor speed control
06. Fan motor low speed control
07. MAIL RELAY
08. CANISTER PURGE VALVE
09. OIL CONTROL VALVE-INTAKE BA
10. OIL CONTROL VALVE-EXHAUST B

ACTUATION TEST 1/20

01. DIAGNOSTIC LAMP(MIL)

DURATION	UNTIL [STOP] KEY PRESS
METHOD	ACTIVATION
CONDITION	IG. KEY ON, ENGINE RUNNING

PRESS [START], IF YOU ARE READY

START STOP

driven testing 1/20

02. Diagnostic light

Time	Click [STOP]
Methord	activate
running	IG. Star key, star engine

2.5. ECU INFORMATION

LEAD 2.0L ALL	1/5
01. DIAGNOSTIC TROUBLE CODES	
02. ERASE	
03. CURRENT DATA	
04. ACTUATION TEST	
05. ECU INFORMATION	

ECU INFORMATION

CAL NUM: D23234267890
ECU S/W NUM: E23234267890
BOOT S/W NUM: F23234267890

OK